

# Receiving Report

Date: 13/0/8  
 Supplier: FAXSOL

Batch No: M120552  
 Dart P/O: 19782

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection: 13/05/08 N/A ☒  
 Work Order: 513 N/A ☐

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M2024T	35063	384	0	0	384	
M2024T	35080	96	0	0	96	
M606	1568.000	144	0	0	144	

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 13/0/8  
 Date: [Signature]  
 Received/Costing: [Signature]  
 Initial: [Signature]

Location \_\_\_\_\_

## Purchase Order Receipt Listing

Wednesday, May 08, 2013 10:53:10 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO19782 Receipt Dates from 5/8/2013 to 5/8/2013 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd												
PO19782	3			M304S18GA	sf	5/10/2013	5/8/2013	128.0000	\$3.26	0.0000	0	\$416.89
CAD	No			304/316 .050 Sheet	sf	128.0000	DESJ02		\$416.89	0.0000	0	
				125552								
	4			M304S24GA	sf	5/10/2013	5/8/2013	64.0000	\$2.06	0.0000	0	\$131.68
	No			304/316 .025 Sheet	sf	64.0000	DESJ02		\$131.68	0.0000	0	
				125552								
	5			M5052H32S.032	sf	5/10/2013	5/8/2013	96.0000	\$1.01	0.0000	0	\$96.78
	No			5052-H32 .032 Sheet	sf	96.0000	DESJ02		\$96.78	0.0000	0	
				125552								
	6			M5052H32S.040	sf	5/10/2013	5/8/2013	64.0000	\$1.09	0.0000	0	\$69.48
	No			5052-H32 .040 Sheet	sf	64.0000	DESJ02		\$69.48	0.0000	0	
				125552								
	7			M5052H32S.080	sf	5/10/2013	5/8/2013	64.0000	\$2.26	0.0000	0	\$144.92
	No			5052-H32 .080 Sheet	sf	64.0000	DESJ02		\$144.92	0.0000	0	
				125552								
	8			M5052H32S.090	sf	5/10/2013	5/8/2013	64.0000	\$2.54	0.0000	0	\$162.79
	No			5052-H32 .090 Sheet	sf	64.0000	DESJ02		\$162.79	0.0000	0	
				125552								
	10			M6061T6R0.500	f	5/10/2013	5/8/2013	60.0000	\$0.84	0.0000	0	\$50.62
	No			6061-T6 Round Bar .500"	f	60.0000	DESJ02		\$50.62	0.0000	0	
				125552								
	11			M6061T6R0.625	f	5/10/2013	5/8/2013	48.0000	\$0.76	0.0000	0	\$36.69
	No			6061-T6 Round Bar .625"	f	48.0000	DESJ02		\$36.69	0.0000	0	
				125552								
	12			M6061T6R0.750	f	5/10/2013	5/8/2013	108.0000	\$1.01	0.0000	0	\$109.34
	No			6061-T6 Round Bar .750"	f	108.0000	DESJ02		\$109.34	0.0000	0	
				125552								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name	VC-COP001	Thyssenkrupp Materials CA Ltd									
PO19782	13		M6061T6R0.875	f	5/10/2013	5/8/2013	36.0000	\$1.36	0.0000	0	\$49.03
CAD	No		6061-T6 Round Bar .875"	f	36.0000	DES102		\$49.03	0.0000	0	
			125552								
Total Received Quantity:											732.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$1,268.23
Total Balance Due Quantity:											0.0000

33

## B I L L O F L A D I N G

No: PEC 821234

## Ship From:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 07May13 at 14:18 From PFW  
Probill

Via VIM TRANSPORT

FOB CONCORD

Frt PREPAID

Route 0- 0 Manifest

Vhcle Trailer

Slp STAN IVERS (905-532-1350)

Sold To: ( 20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Ship To: ( 1)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-563871- 1 Your PO # 19782

STAINLESS STEEL SHEET 304-2B

.0480 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
C3200591 ✓ 177142Quantity PCS Wt LBS  
128.00 SFT 4 246

MTR

2) Our Order PEC-563871- 2 Your PO # 19782

STAINLESS STEEL SHEET 304-2B

.0250 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
YU167818 ✓ 177143Quantity PCS Wt LBS  
64.00 SFT 2 62

MTR

3) Our Order PEC-563871- 3 Your PO # 19782

ALUMINUM SHEET 5052-H32

.0320 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
114087 ✓ 177144Quantity PCS Wt LBS  
96.00 SFT 3 46

MTR

4) Our Order PEC-563871- 4 Your PO # 19782

ALUMINUM SHEET 5052-H32

.0400 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
B-10121197 ✓ 177146Quantity PCS Wt LBS  
64.00 SFT 2 36

MTR

5) Our Order PEC-563871- 5 Your PO # 19782

ALUMINUM SHEET 5052-H32

.0810 Nom X 48.0000" X 96.0000"

Heat Number Tag No  
S12080869 ✓ 177148Quantity PCS Wt LBS  
64.00 SFT 2 72

MTR

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVA/CST # 140222024 T0001 TDS/CST TVA/HST # 140222024 RT0001

43/0/8

B I L L O F L A D I N G  
Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 821234  
Ship Date 07May13 at 14:18 From PFW  
Probill  
Via VIM TRANSPORT  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest 3248  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

B I L L O F L A D I N G - REPRINT

6) Our Order PEC-563871- 6 Your PO # 19782

ALUMINUM SHEET 5052-H32

.0910 Nom X 48.0000" X 96.0000"

Heat Number  
311100931

Tag No  
177150

Quantity PCS  
64.00 SFT 2

Wt LBS  
80

7) Our Order PEC-563871- 7 Your PO # 19782

ALUMINUM SHEET 6061 T6

.0510 Nom X 48.0000" X 144.0000"

THIS ITEM IS BACK ORDERED

8) Our Order PEC-563871- 8 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

Heat Number  
35209-152

Tag No  
176421

Quantity PCS  
60 FT 5

Wt LBS  
14

9) Our Order PEC-563871- 9 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

Heat Number  
21382370

Tag No  
176422

Quantity PCS  
48 FT 4

Wt LBS  
18

10) Our Order PEC-563871- 10 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.750" DIA X 144.0000"

Heat Number  
21382370

Tag No  
176423

Quantity PCS  
108 FT 9

Wt LBS  
57

11) Our Order PEC-563871- 11 Your PO # 19782

ALUMINUM ROUND BAR 6061-T6511

.875" DIA X 144.0000"

Heat Number  
21382370

Tag No  
176424

Quantity PCS  
36 FT 3

Wt LBS  
25

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.  
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.  
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G

No: PEC 821234  
Ship Date 07May13 at 14:18 From PFW  
Probill  
Via VIM TRANSPORT  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

B I L L O F L A D I N G

	Tags	PCS	LBS
TOTAL:	10	36	656

Heat Number

\*\*\* Chemical Analysis \*\*\*

114087  
201200839  
21332570  
21360256  
35209-152  
B-10121197  
C3200591  
S11100931  
S12080869  
YU167818

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

TOTAL 1 SKID, 1 BDL G.W. 733 LBS

ITEMS (1-6) SKID  
ITEMS (8-11) BDL

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\*\* TEL. 800-926-2600 \*\*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

Page: 3 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

# B I L L O F L A D I N G

No: PEC 821234

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 07May13 at 14:18 From PFW  
 Probill  
 Via VIM TRANSPORT  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

## B I L L O F L A D I N G

\*\*\*\*\*  
 \*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
 ADDED TO EVERY ORDER.\*\*\*

Page: 4 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT.  
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

# THYSSENKRUPP MATERIALS NA

PO/Rel 19782

DART AEROSPACE  
STAINLESS STEEL SHEET 304-2B  
.0480 Nom X 48.0000" X 96.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-821234-001

7 May 13  
Pg 1/1

## Certificate of Mill Test Results

### 产品质量证明书 MATERIAL TEST CERTIFICATE

无锡宝昌金属制品有限公司  
Wuxi Baichang Metal Products Co., Ltd

PAGE 2 OF 2

单号: EX1207157GS  
货号: GLOBAL STAINLESS STEEL INC.

品名: COLD ROLLED STAINLESS  
Commodity: STEEL SHEET

牌号:

304

编号:

EX1207157

客户: GLOBAL STAINLESS STEEL INC.

标准:

ASTM A240/A240M

表面加工:

2B

Invoice No.

2012-9-17

INSIGNEE

Specification

Surface Finish

Date

序号 No.	货物编号 Product No.	产品尺寸 Product Size			数量 Number	重量 Weight Kg	拉伸试验 Tensile Test			表面硬度 Hardness HV<200	炉批号 HEAT NO.	化学成分 Chemical Composition (%)						
		厚度 Thickness MM	宽度 Width MM	长度 Length MM			屈服强度 0.2%YS N/mm <sup>2</sup> ≥	抗拉强度 TS N/mm <sup>2</sup> ≥	延伸率 EL %≥45			C	Si	Mn	P	S	Ni	Cr

1	12091710	0.8	1219	2438	63	1136	303	616	56	180	C1200643	0.0500	0.440	1.1000	0.0300	0.0020	8.0100	18.060	0.0417
2	12091711	1.0	1219	2438	54	1114	273	693	56	170	A1200677	0.0400	0.360	1.1300	0.0370	0.0010	8.0100	18.000	0.0503
3	12091712	1.2	1219	2438	55	1518	298	656	56	174	C3200591	0.0500	0.400	1.1300	0.0340	0.0020	8.0400	18.130	0.0420
4	12091713	2.0	1219	2438	35	1495	291	630	60	141	C2206527	0.0400	0.400	1.1000	0.0370	0.0010	8.0600	18.240	0.0300
5	12091714	2.5	1219	2438	26	1500	320	665	67.5	167	C2108891	0.0300	0.480	1.0900	0.0410	0.0020	8.0700	18.230	0.0400
6																			
7																			
8																			
9																			
10																			

注 (Remarks):  
尺寸和表面: 合格  
Size and Surface: Guaranteed

兹证明所列产品均符合订单和标准的制造要求  
WE HEREBY CERTIFY THAT THE MATERIAL HEREIN  
HAS BEEN MADE IN ACCORDANCE WITH THE ORDER AND  
SPECIFICATION  
\*此报告仅可完全复制  
\*The report can only be copied completely

技术本部  
TECHNICAL DEPT.

王...  
...



# THYSSENKRUPP MATERIALS NA

PO/Rel 19782

STAINLESS STEEL SHEET 304-2B  
0250 Norm X 48,0000" X 96,0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results  
BL PEC-821234-002  
7May13  
Pg 1/1

**YIEH MAU CORP.**

## INSPECTION CERTIFICATE

INVOICE NO.: F12M637  
COMMODITY: PRIME COIL ROLLED STAINLESS STEEL SHEET

REPRODUCTION: AISI 304/304L ASTM A240/A480 ASME SA240/SA480  
CUSTOMER: OLBERT METAL SALES LIMITED

NO. 346, SHAN-AN RD., LUZHU DIST.,  
KAOHSIUNG CITY 821, TAIWAN, (R.O.C.)  
TEL NO.: 886-7-697-6266  
FAX NO.: 886-7-697-3006  
CERTIFICATE NO.: F12MA37  
DATE OF ISSUE: 06/03/2012  
PAGE: 1

SIZE	NO. of Product	Weight in KG	Heat No.	ID No.	Mechanical Properties					Chemical Composition (%)							
					Y.S. (N/mm <sup>2</sup> )	T.S. (N/mm <sup>2</sup> )	EL. (%)	HRB	HV	C	Si	Mn	P	S	Ni	Cr	N
304/304L 2B PI	1	1,616	YU169459	12S44578A-11	304	645	51	85	173	2.1	43	141	39	11	801	1810	4.1
11GA X 48" X 96"	1	1,688	YU168459	12S44578A-12	304	645	51	85	173	2.1	43	141	39	11	801	1810	4.1
11GA X 48" X 120"	1	1,684	YU122543	12S74677B-11	324	664	52	86	183	2.8	50	110	34	4	805	1834	5.4
12GA X 48" X 96"	1	1,680	YU122543	12S74677B-12	324	664	52	86	183	2.6	50	110	34	4	805	1834	5.4
12GA X 48" X 120"	1	1,716	YU169559	17S52150A-11	302	620	57	85	171	2.4	41	141	37	3	807	1800	3.8
12GA X 60" X 96"	1	1,707	YU122544	12S74668A-1	336	673	51	89	188	2.2	50	97	37	2	801	1821	5
14GA X 48" X 120"	1	1,691	YU122544	12S74668A-2	336	673	51	89	188	2.2	50	97	37	2	801	1821	5
14GA X 60" X 120"	1	1,625	YU124017	16S70152B-1	300	650	55	84	167	2.4	54	113	31	3	801	1801	4.6
16GA X 48" X 96"	1	1,704	YU168458	12S44558B-1	292	658	48	80	154	2.2	44	154	40	9	803	1802	3.8
16GA X 48" X 120"	1	1,700	YU168458	12S44558B-2	292	658	48	80	154	2.2	44	154	40	9	803	1802	3.8
18GA X 48" X 120"	1	1,617	YU168919	13S43801A-1	303	654	49	83	166	2.6	40	141	36	7	813	1816	3.9
18GA X 48" X 120"	1	1,686	YU119710	04S72867B-21	308	686	50	86	175	3	62	108	36	4	806	1818	5.4
18GA X 60" X 120"	1	1,623	YU263612	12S44502B-1	291	680	51	81	158	1.7	49	139	39	6	805	1812	4
20GA X 60" X 120"	1	1,642	YU263612	17S52201B-1	297	635	59	82	159	2.1	39	125	31	5	804	1816	4.7
22GA X 48" X 120"	1	1,718	YU262750	DCS37132B-21	283	642	55	81	156	1.9	44	115	34	4	804	1811	3.6
24GA X 48" X 96"	1	1,711	YU167818	DCS39412B-21	291	669	50	82	161	2	40	148	36	5	802	1809	4

REMARKS: NO MERCURY CONTAMINATION  
WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE RULES OF THE MILL CERTIFICATE.

THE COUNTRY OF MELT AND MANUFACTURE: TAIWAN

YIEH MAU CORP.  
Manager of Quality Assurance Section

1732

**ZHENGZHOU MINGTAI INDUSTRY CO., LTD**  
 CHANGCHUN ROAD NO.6, HIGH AND NEW TECHNOLOGY ZONE,  
 ZHENGZHOU HENAN CHINA  
 TEL: +86-371-67898715 FAX: 86-371-67898612

### MILL TEST CERTIFICATE

TO: OLBERT METAL SALES LIMITED  
 989 DERRY RD. EAST, SUITE 305 MISSISSAUGA,  
 ONTARIO CANADA L5T 2J8

INVOICE NO.: ZOTO110601  
 CONTRACT NO: 1732/1704/1720  
 LOADING PORT: QINGDAO, CHINA  
 DESTINATION: TORONTO, CANADA  
 SHIPPING MARKS: N/M  
 DATE: JUN.29, 2011  
 DESCRIPTION OF GOODS:  
 ALUMINUM SHEET 5052 H32 CERTIFIED  
 TO ALL AA, ASTM B209, AMS/QQA 250/B, AMS 4016L SPECS.  
 ALUMINUM SHEET 3003 H14 CERTIFIED TO ALL AA,  
 ASTM B209, AMS/QQA 250/2, AMS 4008 SPECS.  
 CIF TORONTO, REF:1732/1704/1720

*JM 13-105/08*  
*S, 3105/08*

#### CHEMICAL COMPOSITION

Heat No.	Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Others	Al
112474	5052	0.098	0.318	0.01	0.065	2.221	0.007	0.014	0.198	0.15	REMAINDER
113780	5052	0.083	0.298	0.021	0.087	2.406	0.023	0.021	0.228	0.15	REMAINDER
114087	5052	0.122	0.318	0.013	0.085	2.215	0.009	0.016	0.197	0.15	REMAINDER
114114	5052	0.102	0.325	0.012	0.049	2.257	0.008	0.01	0.185	0.15	REMAINDER
114115	5052	0.108	0.298	0.009	0.055	2.26	0.007	0.016	0.188	0.15	REMAINDER
B11051024	3003	0.116	0.453	0.0968	1.1	0.0062	0.0107	0.0379	/	0.15	REMAINDER
D1105031	3003	0.122	0.483	0.0937	1.07	0.0095	0.0088	0.0319	/	0.15	REMAINDER
D1105084	3003	0.118	0.422	0.0921	1.06	<0.0050	0.0082	0.0306	/	0.15	REMAINDER
D1105130	3003	0.119	0.47	0.0947	1.13	<0.0050	0.0085	0.036	/	0.15	REMAINDER

#### MECHANICAL PROPERTY

Heat No.	Alloy	Temper	Specs(In)	Tensile strength (Mpa/ ksi)	Elongn %
112474	5052	H32	0.188*48*120	203	29
113780	5052	H32	0.188*48*120	204	30
114087	5052	H32	0.032*48*120/96	228	33
114114	5052	H32	0.125*48*120/96	213	31
114115	5052	H32	0.188*60*144/120	182	26
B11051024	3003	H14	0.08*60*120	170	25
D1105031	3003	H14	0.25*48*96	169	25
D1105084	3003	H14	0.25*48*120	169	25
D1105130	3003	H14	0.188*48*96/120	167	24

PRODUCER: ZHENGZHOU MINGTAI INDUSTRY CO., LTD

ZHENGZHOU MINGTAI INDUSTRY CO., LTD.  
 郑州明泰实业有限公司

1732

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32  
 .0400 Nom X 48.0000" X 96.0000"  
 PART NO.

PO/Rel 19782

We certify that this is a true copy of the report  
 furnished by the producer of the metal, or data  
 resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-821234-004

7May13

Signed by: \_\_\_\_\_

Pg 1/2

1455

### HENAN MINGTAI AL. INDUSTRIAL CO., LTD

HUIGUO ZHEN, GONGYI, HENAN, CHINA 451283

TEL: 371-67898611 FAX: 371-67898612

### MILL TEST CERTIFICATE

TO: OLBERT METAL SALES LIMITED  
 989 DERRY RD. EAST, SUITE 305 MISSISSAUGA,  
 ONTARIO CANADA L5T 2J8

INVOICE NO.: OMTR110102  
 CONTRACT NO.: OMMT110102  
 LOADING PORT: QINGDAO, CHINA  
 DESTINATION: TORONTO, CANADA  
 SHIPPING MARKS: N/M  
 DATE: JAN, 26, 2011

*Jm 13/05/08*  
*5/3/08*

#### DESCRIPTION OF GOODS:

ALUMINUM SHEETS ALLOY 3003 H14 TO ASTM B209 AND ALUMINUM ASSOCIATION SPECS.  
 5052 H32 SHEETS TO ASTM B209, AMS 4016 AND ALUMINUM ASSOCIATION SPECS.  
 REFERENCE 1685, 1653 CIF TORONTO, CANADA

CHEMICAL COMPOSITION											
Heat No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
B10121217-1	5052	0.092	0.290	0.007	0.059	2.290	0.203	0.009	0.012	0.15	REMAINDER
B10121217-2	5052	0.092	0.290	0.007	0.059	2.290	0.203	0.009	0.012	0.15	REMAINDER
B10121197	5052	0.087	0.321	0.007	0.057	2.311	0.201	0.009	0.009	0.15	REMAINDER
B10121214	5052	0.092	0.346	0.007	0.045	2.290	0.197	0.008	0.013	0.15	REMAINDER
B10121214	5052	0.092	0.346	0.007	0.045	2.290	0.197	0.008	0.013	0.15	REMAINDER
B10121198	5052	0.098	0.334	0.007	0.074	2.293	0.188	0.009	0.012	0.15	REMAINDER
B10121196	5052	0.103	0.351	0.007	0.052	2.236	0.225	0.008	0.012	0.15	REMAINDER
B10121195	5052	0.107	0.324	0.007	0.050	2.225	0.245	0.007	0.013	0.15	REMAINDER
B10121215	5052	0.103	0.359	0.009	0.063	2.270	0.207	0.007	0.014	0.15	REMAINDER
B10121134	5052	0.128	0.387	0.018	0.057	2.231	0.183	0.009	0.020	0.15	REMAINDER
B10121134	5052	0.128	0.387	0.018	0.057	2.231	0.183	0.009	0.020	0.15	REMAINDER
D1012134	5052	0.117	0.356	0.018	0.040	2.285	0.209	0.009	0.007	0.15	REMAINDER
D1012134	5052	0.117	0.356	0.018	0.040	2.285	0.209	0.009	0.007	0.15	REMAINDER
D1012135	5052	0.120	0.345	0.019	0.045	2.249	0.193	0.008	0.013	0.15	REMAINDER
D1012136	5052	0.127	0.399	0.014	0.050	2.228	0.215	0.010	0.011	0.15	REMAINDER
D1012119	3003	0.0835	0.444	0.0753	1.07	0.0097	/	0.0101	0.0324	0.15	REMAINDER
105084	3003	0.302	0.519	0.060	1.088	0.048	0.005	0.029	0.032	0.15	REMAINDER
105089	3003	0.330	0.503	0.069	1.031	0.025	0.005	0.029	0.031	0.15	REMAINDER
105090	3003	0.301	0.598	0.059	1.085	0.044	0.005	0.022	0.031	0.15	REMAINDER
MECHANICAL PROPERTY											
Heat No.	Alloy	Temper	Specs(in)	Tensile strength (Mpa/ ksi)		Elong %					

*Next*  
*Page 5* →

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32  
 .0400 Nom X 48.0000" X 96.0000"  
 PART NO.

PO/Rel 19782

We certify that this is a true copy of the report  
 furnished by the producer of the metal, or data  
 resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-821234-004

7May13

Signed by: \_\_\_\_\_ Pg 2/2

B10121217-1	5052	H32	0.08*48*120	226	33	13
B10121217-2	5052	H32	0.063*48*120	226	33	13
B10121197	5052	H32	0.04*48*96	225	33	14
B10121214	5052	H32	0.05*48*96	224	32	14
B10121214	5052	H32	0.04*48*96	224	32	14
B10121198	5052	H32	0.05*48*96	225	33	13
B10121196	5052	H32	0.063*48*96	226	33	14
B10121195	5052	H32	0.08*48*96	224	32	13
B10121215	5052	H32	0.125*48*144	223	32	14
B10121134	5052	H32	0.125*60*96	225	33	13
B10121134	5052	H32	0.125*60*120	225	33	13
D1012134	5052	H32	0.188*48*120/96	224	32	13
D1012135	5052	H32	0.188*48*144	224	32	14
D1012136	5052	H32	0.25*48*96	223	32	14
D1012119	3003	H14	0.188*48*96	167	24	22
105084	3003	H14	0.125*48*96	178	26	20
105089	3003	H14	0.08*60*120	177	26	18
105090	3003	H14	0.125*60*120	170	25	10

PRODUCER: HENAN MINGTAI AL INDUSTRIAL CO., LTD

HENAN MINGTAI AL INDUSTRIAL CO., LTD  
 河南明泰铝业股份有限公司

付 磊

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 5052-H32  
 .0810 Nom X 48.0000" X 96.0000"  
 PART NO.

PO/Rel 19782

We certify that this is a true copy of the report  
 furnished by the producer of the metal, or data  
 resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-821234-005

7May13

Pg 1/1

Signed by: \_\_\_\_\_

1803

(3)

MILL TEST CERTIFICATE	No: 14769 Date: 9/12/2012	CERTIFIED SRAC-IQNet ISO 9001:2008 No. 10/4-2011	vimetco SLATINA
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CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 1803

BILL OF DELIVERY : 80142842

TRUCK/CONTAINER : MSCU 5523896

MATERIAL : ALUMINUM SHEETS

ALLOY : 5052

DIMENSIONS(mm)

: 80019471

: 80019472

0.064" THX48" WDX120" LT

0.08" THX48" WDX96" LT

TEMPER: H32

ACCORDING TO : ASTM B209; AMS 4016L; ANSI H35.2

ACTUAL MECHANICAL PROPERTIES 1 MPa = 1 N/mm<sup>2</sup> = 0.145 ksi = 0.102 kgf/mm<sup>2</sup>

1 lbs = 0.4536 kg			UTS		YTS	Elong. %	Hardness*
			KSI		KSI	50mm	HB
			min.	max.	min.	max.	min.
Specified values:			31	38	23	7	
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:				
80019471	111374;111376;	15,824.794	31.6	23	16		
S12080872	111452;111454		31.8	23.1	15		
80019472	111456;111458	6,957.795	34	26.8	14		
S12080869			33.8	26.7	14		

### ACTUAL CHEMICAL ANALYSIS %

BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S12080872	0.1	0.16	0.013	0.065	2.27	0.19	0.003	0.006	0.018	0.007	0.013	REM.
S12080869	0.09	0.19	0.011	0.046	2.43	0.2	0.004	0.005	0.012	0.008	0.013	REM.
Acc. Standard	Min.											REM.
	Max.	0.25	0.4	0.1	0.1	2.2	0.15	0.05	0.1	0.05	0.05	REM.
Remarks:						Other-Each- Max.: 0.05			OthersTotal- Max.: 0.16			

### REMARKS:

ACCORDING TO ASTM B209,2010; AMS 4016L 2006; ANSI H35.2 2009

\* Typical value, for information only.

We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminium Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labelling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.  
 Bogdan Sorocobu, Eng.

ALRO S.A. SLATINA  
 Punct de lucru Slatina  
 Str. Micey Nr.1, Jud.Olt  
 Serv. Informatia Calitate

ALRO S.A. No.116, Pitești Street Phone: +(40) 0249 435 117; 0249 432 956 alro@alro.ro  
 230048-Slatina-ROMANIA Fax: (40) 0249 411 487; 0249 415 992 www.alro.ro

cod FI-PO-551/Rev.2/2011

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM SHEET 5052-H32  
.0910 Nom X 48.0000" X 96.0000"  
PART NO.

PO/Rel 19782

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-821234-006

7May13

Signed by: \_\_\_\_\_

Pg 1/1

1750

MILL TEST CERTIFICATE	No: 16872 Date: 11/7/2011	CERTIFIED BRAC40N# ISO 9001/2008 No. 10/4-2011	vimetco SLATINA
--------------------------	------------------------------	---	--------------------

CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 1750  
BILL OF DELIVERY : 80114149  
TRUCK/CONTAINER : MSCU 5609573

MATERIAL : ALUMINUM SHEETS  
ALLOY : 5052  
DIMENSIONS (mm) : 80015709 : 0.080"THX48"WDX96"LT  
80015713 : 0.100"THX48"WDX120"LT  
ACCORDING TO : ASTM B209; ANSI H35.2

TEMPER: H32

JM13/05/08  
S3/05/08

ACTUAL MECHANICAL PROPERTIES				1 MPa = 1 N/mm2 = 0.145 ksi = 0.102 kgf/mm2								
1 lbs = 0.4536 kg			UTS		YTS	Elong. %	Hardness					
			KSI		KSI	50mm	HR					
Specified values:			min.	max.	min.	max.	min.					
			31	38	23	7						
LOT / BATCH		CASE	NET WEIGHT lbs	Measured values:								
80015709 S11100931		83060;83062; 83064;83066; 83068;83070	16,980.017	34.4 34.1	26.8 26.4	14 14						
80015713 S11100929		83308	2,204.624	33.2 33.7	25.6 26	14 13						
ACTUAL CHEMICAL ANALYSIS %												
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S11100931	0.08	0.27	0.007	0.018	2.42	0.2	0.003	0.008	0.009	0.009	0.009	REM.
S11100929	0.08	0.27	0.008	0.021	2.37	0.17	0.003	0.004	0.012	0.009	0.011	REM.
Max. Standard	Min.				2.2	0.15						REM.
	Max.	0.25	0.4	0.1	0.1	2.8	0.35	0.05	0.1	0.05	0.05	
Remarks:				Other- Each- Max.: 0.05				Others Total- Max.: 0.15				

### REMARKS:

ACCORDING TO: ASTM B209/2010; ANSI H35.2/2009

\* Typical value, for information only.

We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must be max. 11 degrees C.

Also we certify that the material respects HG 1072 and does not endanger life, health, job security (if handled properly) have no negative impact on the environment.

According to EN 10204:2004 3.1

### QUALITY CONTROL DEPT.

S. GIALKO S.A. SLATINA  
Puncte de lucru Slatina  
Str. Pilety Nr. 1, Jud. Olt  
Tel./Fax: 0249 415 992  
E-mail: info@alro.ro

ALRO S.A. Nr. 116, Pitești Street, Phone: +40 0248 435 117; 0249 432 556 alro@alro.ro  
230048-Slatina-ROMANIA Fax: (40) 0249 411 487; 0249 415 992 www.alro.ro

cod 1: PO-051/Rev. 2/2011

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

PART NO.

PO/Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-821234-008

7May13

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-243267-9		CUSTOMER PART NUMBER: ALRD00177		PRODUCT DESCRIPTION: 0.500 +/- .005 ROD	
KAISER ORDER NUMBER: 631038	LINE ITEM: 009	SHIP DATE: 11/02/2012	KAISER LOT NUMBER: 35209-152	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 976.000 LB	QUANTITY: 352.000 PCS	B/L NUMBER: 604800	DIA/DIAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
35209-152	0001	1	46.2	41.5	15.0	RE 90	N/A	N/A
35209-152	0001	2	57.7	43.4	14.7	RE 91	N/A	N/A
35209-152	0001	3	47.1	43.1	12.5	RE 92	N/A	N/A
35209-152	0001	4	46.1	42.4	12.8	RE 92	N/A	N/A
35209-152	0001	5	47.0	42.9	12.3	RE 92	N/A	N/A
35209-152	0001	6	43.6	39.5	12.5	RE 92	N/A	N/A
35209-152	0001	7	43.1	38.0	12.8	RE 92	N/A	N/A
35209-152	0001	8	42.6	37.6	12.3	RE 92	N/A	N/A
35209-152	0001	9	44.2	40.0	16.6	RE 92	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H43C02	.73	.44	.21	.09	.90	.10	.06	.02	.01	.01	.00	.01	.03
H42969	.74	.46	.21	.09	.89	.08	.09	.02	.01	.01	.00	.01	.03

### Applicable Requirements:

ASTM-B221-12 NON-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) JNS#A96061  
(T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

*Jm*  
*13/05/08*  
*15/05/08*

Plant Serial: 00065436  
Kaiser Order Number: 631038  
Line Item: 009

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

PART NO.

PO/Rel 19782

We certify that this is a true copy of the report  
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## Certificate of Mill Test Results

BL PEC-821234-008

7May13

Signed by: \_\_\_\_\_

Pg 2/2

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager

*Calvin Latting*

Plant Serial: 00065436

Kaiser Order Number: 631038

Line Item: 009

Page 2 of 2



# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
6.25" DIA X 144,000"  
PART NO.

PO/Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results  
BL PEC-821234-009  
7May13  
Pg 1/3

**sapa:**

Sapa Industrial Extrusions  
53 POTTSVILLE STREET

CRESSONA, PA  
17325-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5C6

## Certified Inspection Report

Sales Order Number 1100578945  
Line No. 2  
Customer PO# PEC-24651-002

Cert Number SARA725479  
Page 1 of 3  
Cert Creation Date 07-MAR-13  
Cert Expiry Date 07-MAR-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
2028	LB	07-MAR-13	Formed AL-CLINE ACC-U-LINE 6.25" DIA X 144,000" SUCT 355316 14,000 IN LN FIN M-MILL W/F 361 F 5 CS .63 6061/T6511H Marking CONTINUOUS	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997 ASME SB221 REV 09 UNSM A96061 REV SAE J454 REV Mecha 6061-T6511H, 6061-T6511: REV
408413			Item No. Rev	
Delivered At				
4406197				
Customer Part No.				
6525FR4				

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for "Others Each" and "Others Total" have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

*William T. Martin, III*

William Martin III

Tech/Quality Manager

07-MAR-13

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal constituent in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Package Number	Lot Number	Quantity	UOM	Weight	Net
G12-PKG1880875	21332570	117	PCS	513	507
G12-PKG1880875	21332570	117	PCS	513	507
G12-PKG1880899	21332570	117	PCS	513	507
G12-PKG1889394	21346641	117	PCS	513	507
G12-PKG1889399	21346641	117	PCS	513	507

Composition Limits

PO/Rel 19782

**DART AEROSPACE**  
ALUMINUM ROUND BAR 6061-T6511  
".625" DIA X 144.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

# Certificate of Mill Test Results

BL PEC-821234-009

7May13  
Pg 2/3

SECRET

Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

# Certified Inspection Report

Sales Order Number	Issue No.	Customer P/O	Cart Creation Date	Cart Print Date
1100578045	2	PEC-246511-002	07-MAR-13	07-MAR-13

Cart Number	Page
SAPNA725479	Page 2 of 3
Cart Creation Date	Cart Print Date

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	---	0.70	0.15	0.40	---	0.15	0.80	1.20	0.04	0.35	---	0.25
Alloy 6051	Ti		Ni		Pb		Others Each		Others Total					
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max				
6051	---	0.15	---	0.05		0.05	---	0.05	---	0.15				

### Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Al	Bi	Pb	Others Each	Others Total
3001481	0.69	0.33	0.32	0.06	0.87	0.06	0.03	0.02	--	--	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Al	Bi	Pb	Others Each	Others Total
5031050	0.74	0.32	0.32	0.09	0.89	0.04	0.03	0.02	--	--	--	--

### Mechanical Property - 'Test Limits'

Test Type		MIN. L		TYS. L		EL. 4D-Long		
UOM		KSI		KSI		PCT		
Test Temper	Test Temperature	# of Tests	MIN. Value	MAX. Value	MIN. Value	MAX. Value	MIN. Value	MAX. Value
16511H	21332570	8	43.6	46.4	39.1	42.7	15.7	17.6
Test Type		UYS. L		TYS. L		EL. 4D-Long		
UOM		KSI		KSI		PCT		
Test Temper	Test Temperature	# of Tests	MIN. Value	MAX. Value	MIN. Value	MAX. Value	MIN. Value	MAX. Value
16511H	21346041	6	46.0	47.2	42.1	44.0	15.3	16.4

### Get Notes

# THYSSENKRUPP MATERIALS NA

PO/Rel 19782

## Certificate of Mill Test Results

BL PEC-821234-009

7 May 13  
Pg 3/3

DART AEROSPACE

ALUMINUM ROUND BAR, 6061-T6511  
625" DIA X 144,0000

PART NO.

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by: \_\_\_\_\_

# sapa

Sapa Industrial Extrusions  
53 POTTSVILLE STREET

CRENSHAW, PA  
17929-0187

### Certified Inspection Report

Sales Order Number  
1100578945

Line No.  
2

Customer P/O  
PEC-246511-002

Cert Number  
SAPA725479

Cert Creation Date  
07-MAR-13

Page  
3 of 3

Cert Print Date  
07-MAR-13

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per Refs, with the exception of 6062 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Made in the USA or Other Qualified Countries as Defined by DPAHS 224.872.1

Made in USA

# THYSSENKRUPP MATERIALS NA

PO/Rel 19782

## Certificate of Mill Test Results

BL PEC-821234-010

7May13  
Pg 1/2

**DART AEROSPACE**  
ALUMINUM ROUND BAR 6061-T6511  
750" DIA X 144,000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
168561	2

BILL TO: ThyssenKrupp Materials NA  
SHIP TO: ThyssenKrupp Materials NA PEC  
Quantity Certified: 1,611 lbs 258 pcs

MANIFEST NUMBER: 181164  
CUSTOMER PO: PEC-245609  
CUSTOMER PART NUMBER: RD0003

DATE OF SHIPMENT: 2/8/2013  
SALES PERSON: David Schroeder

ALLOT/ITEM: RD0003  
6061-T6511  
DESCRIPTION: Lighting Rod Tite 0.750 +.004-.003

CERTIFICATION: ASTM-B221-12a Stencil Cont  
SPECIFICATION: AMS-QQA-200/8

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

#### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
91	201300839	01/21/13	51.4	49.3	15.3
92	201300839	01/21/13	51.2	48.8	13.2
93	201300839	01/21/13	51.1	49.1	15.6
94	201300839	01/21/13	54.1	52.2	16.7
95	201300839	01/21/13	52.8	52.1	16.8
96	201300839	01/21/13	51.8	50.7	16.6
97	201300839	01/21/13	51.6	49.3	16.9
98	201300839	01/21/13	51.3	47.8	15.3
99	201300839	01/21/13	50.6	48.8	13.0
100	201300839	01/21/13	52.1	49.3	15.0
101	201300839	01/21/13	51.7	49.1	11.8
102	201300839	01/21/13	51.6	49.5	16.9
103	201300839	01/21/13	51.9	49.8	15.6
104	201300839	01/21/13	50.5	48.2	12.1
105	201300839	01/21/13	51.5	49.4	12.6

6061-T6511

Print Date: 2/8/2013

Calvin J. Wiggins, Director of Quality & Technical Services

REV. 9/23/11-LMS

# THYSSENKRUPP MATERIALS NA

PO/Rel 19782

Certificate of Mill Test Results

BL PEC-821234-010

7May13  
Pg 2/2

**DART AEROSPACE**  
ALUMINUM ROUND BAR 6061-T6511  
750" DIA X 144,0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
168561	2

<b>BILL TO</b>	<b>MANIFEST NUMBER</b>	<b>DIE NUMBER</b>	<b>DATE OF SHIPMENT</b>
ThyssenKrupp Materials NA	181164	RD0003	2/8/2013
<b>SHIP TO</b>	<b>CUSTOMER PO</b>	<b>ALLOY / TEMPER</b>	<b>SALESPERSON</b>
ThyssenKrupp Materials NA PEC	PEC-245609	6061-T6511	David Schroeder
<b>Quantity Certified</b>	<b>CUSTOMER PART NUMBER</b>	<b>DESCRIPTION</b>	
1,611 lbs	RD0003	Lighting Rod Tite 0.750 + 004/-003	

**CERTIFICATION**  
ASTM-B221-12a StencilCont  
SPECIFICATION  
AMS-QCA-200/8

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Others	Melt Source:
122326	6061	0.75	0.36	0.32	0.11	0.87	0.17	0.06	0.02	97.34	0.05	0.15		United States of America

Print Date: 2/8/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
8.75" DIA X 144,000"  
PART NO.

PO/Rel 19782

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results  
BL PEC-821234-011  
7May13  
Pg 1/2

**sapa**

Sapa Industrial Extrusions  
53 PORTSVILLE STREET  
CRESSONA, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa Al

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K5C6

Ship To Customer  
THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K5C6

## Certified Inspection Report

Sales Order Number 1100836086 Line No. 2 Customer P/O PEC-247019-002  
Cert Number SAPA736517 Page 1 of 2  
Cert Creation Date 26-MAR-13 Cert Print Date 26-MAR-13

Quantity Shipped	Date Shipped	Item Description	Specification
1052 LB	26-MAR-13	ACC-U-LINE Extended ACC-U-ROD 0.875 DIA +/- .003 SHT 555330 144 000 IN LN BIN M-SHILL W/F .707 F 4 CS .88 6061/T6511H Marking CONTINUOUS:	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997 ASME B221 REV 09 UNS#A96061 REV SAEN451 REV Meets 6061-T6511H, 6061-T6511 REV
413962	03/29/2013	Item No.	
Delivery Id	Item No. Rev		
4411925			
Customer Part No.			
.875ER+			

Applicable Specifications, Revisions and Exceptions  
COMPOSITION NOTE: The values for "Others Each" and "Others Total" have met the limits as shown on this certified inspection report. Remainder is Aluminum.

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title  
*William T. Martin, III*  
William Martin III  
Tech/Quality Manager  
26-MAR-13

### Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
G12-PEG1904737	21360256	62	PCS	532
G12-PEG1904744	21360256	62	PCS	532

Alloy	SI		Fe		Cu		Mn		Mg		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80			0.70	0.15	0.40		0.15	0.80	1.20	0.04

*8/3/05/08*

# THYSSENKRUPP MATERIALS NA

PO/Rel 19782

## Certificate of Mill Test Results

BL PEC-821234-011

7May13  
Pg 2/2

**DART AEROSPACE**  
ALUMINUM ROUND BAR 5061-T6S11  
.875" DIA X 144.000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: \_\_\_\_\_



Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

### Certified Inspection Report

Sale Order Number	Line No.	Customer P/O	Cert Number	Page
1100586086	2	PEC-267019-002	SAPAT736517	2 of 2
			Cert Creation Date	Cert Print Date
			26-MAR-13	26-MAR-13

Alloy	TI	BI	Pb	Others Each	Others Total
5061	Min Max	Min Max	Min Max	Min Max	Min Max
	0.15 0.05	0.05 0.05	0.05 0.05	0.05 0.05	0.15

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	BF	Pb	Others Each	Others Total
5031187	0.72	0.42	0.29	0.07	0.89	0.07	0.07	0.02				

#### Mechanical Property - Test Limits

Test Type	Test Type	Test Type	Test Type	Test Type
UTS - L	UTS - L	UTS - L	UTS - L	UTS - L
YOM	KSI	KSI	PCT	PCT
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value
T6S11H	21360256	7	44.6	46.4
			40.6	42.9
			15.7	16.9

#### Cert Notes

Products manufactured with a T6S11 temper also meet T6 temper requirements.  
Yield strength has been determined by the 0.2% offset method.  
All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy.  
In accordance with EN 10204 Inspection Certificate Type 3.1  
Metel in the USA or Other Qualified Countries as Defined by DPAKS 725.872.1  
Made in USA



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 1 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**  
613 632 1053

M125552

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M2024T3S.063	2024-T3 .063 sheet	5/10/13 Yes	384.00 sf	Yours ppd	\$3.7500	\$1,440.00
		Special Request:	MATERIAL: 2024-T3 ALUMINUM SHEET QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209				
2	M2024T3S.080	2024-T3 .080 sheet	5/10/13 Yes	96.00 sf	Yours ppd	\$4.5417	\$436.00
		Special Request:	MATERIAL: 2024-T3 ALUMINUM SHEET QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209				
3	M304S18GA 4	304/316 .050 Sheet	5/10/13 Yes	128.00 sf	Yours ppd ✓ 4/31/13	\$3.2812	\$420.00 ✓

PO Instructions: NO: PEC ST-562891  
NO: PEC ST-563125

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required YES NO

Change Nbr:

2

Change Date: 5/03/13





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**

up Date

Purchase Order ID **PO19782**

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 2 of 5

**Order From :**

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Contact Name**

**Vendor Phone** 905 669 9444

**Vendor Fax** 905 738 9033

**Vendor Account Nbr**

**Buyer**

Chantal Lavoie

**Requisition Nbr**

**Tax Resale Nbr** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** Destination-Collect

**Special Inst:**

MATERIAL: AISI 304/316 SS SHEET  
ANNEALED 2B FINISH  
AS MIL-S-5059 OR AMS 5513 (304) OR  
AMS 5524 (316)  
OR ASTM A240 OR ASME SA240

4 M304S24GA

304/316 .025 Sheet

5/10/13

Yes

64.00 Yours ppd  
sf

\$2.0728

\$132.66 ✓

**Special Inst:**

MATERIAL: AISI 304/316 SS SHEET  
ANNEALED 2B FINISH  
AS MIL-S-5059 OR AMS 5513 (304) OR  
AMS 5524 (316)  
OR ASTM A240 OR ASME SA240

5 M5052H32S.032

5052-H32 .032 Sheet

5/10/13

Yes

96.00 Yours ppd  
sf

\$1.0156

\$97.50 ✓

**Special Inst:**

MATERIAL: AISI 304/316 SS SHEET  
ANNEALED 2B FINISH  
AS MIL-S-5059 OR AMS 5513 (304) OR  
AMS 5524 (316)  
OR ASTM A240 OR ASME SA240

6 M5052H32S.040

5052-H32 .040 Sheet

5/10/13

Yes

64.00 Yours ppd  
sf

\$1.0938

\$70.00 ✓

**Special Inst:**

MATERIAL: 5052-H32 ALUMINUM  
SHEET AS PER  
QQ-A-250/8 OR AMS-QQ-A-250/8 OR  
AMS 4016  
OR ASTM B209

**PO Instructions:** NO: PEC ST-562891  
NO: PEC ST-563125

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required **YES** NO

**Change Nbr:** 2

**Change Date:** 5/03/13



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 3 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

7	M5052H32S.080	5052-H32 .080 Sheet	5/10/13	64.00	Yours ppd	\$2.2812	\$146.00
	2		Yes	sf	10		

Special Inst: MATERIAL: 5052-H32 ALUMINUM  
SHEET AS PER  
QQ-A-250/8 OR AMS-QQ-A-250/8 OR  
AMS 4016  
OR ASTM B209

8	M5052H32S.090	5052-H32 .090 Sheet	5/10/13	64.00	Yours ppd	\$2.5625	\$164.00
	2		Yes	sf	h		

Special Inst: MATERIAL: 5052-H32 ALUMINUM  
SHEET AS PER  
QQ-A-250/8 OR AMS-QQ-A-250/8 OR  
AMS 4016  
OR ASTM B209

9	M6061T6S.050	6061-T6 .050 Sheet	5/10/13	144.00	Yours ppd	\$1.9792	\$285.00
			Yes	sf			

Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM  
SHEET  
AS PER QQ-A-250/11 OR AMS-QQ-A-  
250/11 OR  
AMS 4025 OR AMS 4027 OR ASTM B209

10	M6061T6R0.500	6061-T6 Round Bar .500	5/10/13	60.00	Yours ppd	\$0.8500	\$51.00
	5		Yes	f	10/13/14		

PO Instructions: NO: PEC ST-562891  
NO: PEC ST-563125

Change Nbr: 2

Change Date: 5/03/13

No substitution or deviation without  
consent.  
Certificate of Conformity of Material  
Certification required - YES NO



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO19782

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 4 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/  
T6510/ T6511/ T62) ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR  
(AMS 4117/4128/4115/4116)  
OR QQ-A-200/8OR AMS-QQ-A-200/8 )OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

11 M6061T6R0.625

6061-T6 Round Bar .625"

5/10/13

48.00 Yours ppd

\$0.7700

\$36.96 ✓

Yes

f

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/  
T6510/ T6511/ T62) ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR  
(AMS 4117/4128/4115/4116)  
OR QQ-A-200/8OR AMS-QQ-A-200/8 )OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

12 M6061T6R0.750

6061-T6 Round Bar .750"

5/10/13

108.00 Yours ppd

\$1.0200

\$110.16 ✓

Yes

f

Special Inst:

MATERIAL:6061-T6 (OR 6061-T651/  
T6510/ T6511/ T62) ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR  
(AMS 4117/4128/4115/4116)  
OR QQ-A-200/8OR AMS-QQ-A-200/8 )OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

13 M6061T6R0.875

6061-T6 Round Bar .875"

5/10/13

36.00 Yours ppd

\$1.3722

\$49.40 ✓

Yes

f

PO Instructions:

NO: PEC ST-562891  
NO: PEC ST-563125

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required - YES NO

Change Nbr:

2

Change Date:

5/03/13



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO19782**

Purchase Order Date 5/03/13

PO Print Date 5/03/13

Page Number 5 of 5

**Order From :**

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

**Contact Name**

**Vendor Phone**

905 669 9444

**Vendor Fax**

905 738 9033

**Vendor Account Nbr**

**Buyer**

Chantal Lavoie

**Requisition Nbr**

**Tax Resale Nbr**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Special Inst:**

MATERIAL:6061-T6 (OR 6061-T651/  
T6510/ T6511/ T62) ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR  
(AMS 4117/4128/4115/4116)  
OR QQ-A-200/8OR AMS-QQ-A-200/8 )OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

**PO Total:**

**\$3,438.68**

**MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY**

**PO Instructions:** NO: PEC ST-562891  
NO: PEC ST-563125

**Change Nbr:** 2

**Change Date:** 5/03/13

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required **YES** NO